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			EXAMINER MCDOWELL, JR, MAURICE L.	
			ART UNIT 2628	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/769,691

**Applicant(s)**

BEAR ET AL.

**Examiner**

MAURICE MCDOWELL, JR

**Art Unit**

2628

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-6, 9-17, 20-28, 31-39 and 42-44 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6, 9-17, 20-28, 31-39 and 42-44 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsman's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 4/22/2009
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-2, 4-6, 9, 12-13, 15-17, 20, 23-24, 26-28, 31, 34-35, 37-39, 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hinckley et al. Pub. No.: US 2002/0021278 A1 in view of Tenhunen et al. Pub. No.: US 2002/0198029 A1.

3. Regarding claim 1, Hinckley teaches: A method for logically remapping the commands to logical buttons for a navigational device comprising a computing device coupled to a physically rotate-able display device having a display, said navigational device having logical buttons and associated commands for such logical buttons, said method comprising; detecting a change in orientation of the display from a first orientation to a second orientation at the computing device (figs. 10 and 11 see also [0072] [0073]).

4. Hinckley doesn't teach: responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display.

5. The analogous prior art Tenhunen teaches: responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons

based on the second orientation of the display (figs. 1a-c see also [0019]) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

6. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

7. Regarding claim 2, Hinckley teaches: The method wherein the display device is a visual display device (figs. 10 and 11).

8. Regarding claim 4, Hinckley teaches: The method wherein the display device is one from the group comprising: visual display device, audio display device, and tactile display device (figs. 10 and 11).

9. Regarding claim 5, Hinckley teaches: The method further comprising detecting a change in orientation of the display device at the computing device and, responsive to the detection of the change in orientation of the display device, automatically changing the orientation of the display (figs. 10 and 11 see also [0072] [0073]).

10. Regarding claim 6, Hinckley teaches: The method further comprising detecting a command to change the orientation of the display from the first orientation to the second

orientation at the computing device and, responsive to the detection of the command, automatically changing the orientation of the display from the first orientation to the second orientation (figs. 10 and 11 see also [0072] [0073]).

11. Regarding claim 9, Hinckley doesn't teach: The method wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons.

12. The analogous prior art Tenhunen teaches: The method wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons (figs. 1a-c) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

13. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

14. Regarding claim 12, Hinckley teaches: A user interface system attached to a display device for logically remapping the commands to logical buttons for a navigational device coupled to a physically rotate-able display device having a display, said navigational device having logical buttons and associated commands for such logical buttons, said system

comprising; a subsystem for detecting a change in orientation of the display from a first orientation to a second orientation (figs. 10 and 11 see also [0072] [0073]).

15. Hinckley doesn't teach: a subsystem for, responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display.

16. The analogous prior art Tenhunen teaches: a subsystem for, responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display (figs. 1a-c see also [0019]) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

17. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine a subsystem for, responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

18. Regarding claim 13, Hinckley teaches: The user interface system wherein the display device is a visual display device (figs. 10 and 11).

19. Regarding claim 15, Hinckley teaches: The user interface system wherein the display device is one from the group comprising: visual display device, audio display device, and tactile display device (figs. 10 and 11).
20. Regarding claim 16, Hinckley teaches: The user interface system wherein, further comprising a subsystem for detecting a change in orientation of the display device, and a subsystem for, responsive to the detection of the change in orientation of the display device, automatically changing the orientation of the display (figs. 10 and 11 see also [0072] [0073]).
21. Regarding claim 17, Hinckley teaches: The user interface system further comprising a subsystem for detecting a command to change the orientation of the display from the first orientation to the second orientation, and a subsystem for, responsive to the detection of the command, automatically changing the orientation of the display from the first orientation to the second orientation (figs. 10 and 11 see also [0072] [0073]).
22. Regarding claim 20, Hinckley doesn't teach: The user interface system wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons.
23. The analogous prior art Tenhunen teaches: The user interface system wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons (figs. 1a-c) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

24. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

25. Regarding claim 23, Hinckley teaches: A computer-readable medium having computer-readable instructions for a method of logically remapping the commands to logical buttons for a navigational device coupled to a physically rotate-able display device having a display, said navigational device having logical buttons and associated commands for such logical buttons, said method comprising; detecting a change in orientation of the display from a first orientation to a second orientation (figs. 10 and 11 see also [0072] [0073]).

26. Hinckley doesn't teach: responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display.

27. The analogous prior art Tenhunen teaches: responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display (figs. 1a-c see also [0019]) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.



28. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

29. Regarding claim 24, Hinckley teaches: The computer-readable medium wherein the display device is a visual display device (figs. 10 and 11).

30. Regarding claim 26, Hinckley teaches: The computer-readable medium wherein the display device is one from the group comprising: visual display device, audio display device, and tactile display device (figs. 10 and 11).

31. Regarding claim 27, Hinckley teaches: The computer-readable medium wherein, automatically the method further comprises detecting a change in orientation of the display device and, responsive to the detection of the change in orientation of the display device, automatically changing the orientation of the display (figs. 10 and 11 see also [0072] [0073]).

32. Regarding claim 28, Hinckley teaches: The computer-readable medium wherein, the method further comprises detecting a command to change the orientation of the display from the first orientation to the second orientation and, responsive to the detection of the command, automatically changing the orientation of the display from the first orientation to the second orientation (figs. 10 and 11 see also [0072] [0073]).

33. Regarding claim 31, Hinckley doesn't teach: The computer-readable medium wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons.

34. The analogous prior art Tenhunen teaches: The computer-readable medium wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons (figs. 1a-c) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

35. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

36. Regarding claim 34, Hinckley teaches: A hardware control device for a method of logically remapping the commands to logical buttons for a navigational device coupled to a physically rotate-able display device having a display, said navigational device having logical buttons and associated commands for such logical buttons, said navigational device further comprising: a component configured to detect a change in orientation of the display from a first orientation to a second orientation (figs. 10 and 11 see also [0072] [0073]).

37. Hinckley doesn't teach: responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display.

38. The analogous prior art Tenhunen teaches: responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display (figs. 1a-c see also [0019]) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

39. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine responsive to the detection of the change in orientation of the display, automatically logically remapping the commands to the logical buttons based on the second orientation of the display as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

40. Regarding claim 35, Hinckley teaches: The hardware control device wherein the display device is a visual display device (figs. 10 and 11).

41. Regarding claim 37, Hinckley teaches: The hardware control device wherein the display device is one from the group comprising: visual display device, audio display device, and tactile display device (figs. 10 and 11).

42. Regarding claim 38, Hinckley teaches: The hardware control device wherein, the component is further configured to detect a change in orientation of the display device and, responsive to the detection of the change in orientation of the display device, automatically changing the orientation of the display (figs. 10 and 11 see also [0072] [0073]).

43. Regarding claim 39, Hinckley teaches: The hardware control device wherein, the component is further configured to detect a command to change the orientation of the display from the first orientation to the second orientation and, responsive to the detection of the command, automatically changing the orientation of the display from the first orientation to the second orientation (figs. 10 and 11 see also [0072] [0073]).

44. Regarding claim 42, Hinckley doesn't teach: The hardware control device wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons.

45. The analogous prior art Tenhunen teaches: The hardware control device wherein, if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons (figs. 1a-c) for the benefit of to create a mobile station including a keypad, which is easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

46. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the navigational control device is symmetrical both vertically and horizontally, the logical remapping rotates the commands to the logical buttons as shown in Tenhunen with Hinckley for the benefit of to create a mobile station including a keypad, which is

easier and more stable to use than previously, especially with one hand, and which can be adapted faster and more simply to different operating situations.

47. Claims 10-11, 21-22, 32-33, 43-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hinckley et al. Pub. No.: US 2002/0021278 A1 in view of Tenhunen et al. Pub. No.: US 2002/0198029 A1 further in view of Kfoury et al. Pub. No.: US 2003/0044000 A1.

48. Regarding claim 10, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The method wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation.

49. The analogous prior art Kfoury teaches: The method wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation (figs. 1-4) for the benefit of best accommodating both right and left hand users.

50. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

51. Regarding claim 11, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The method wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed.

52. The analogous prior art Kfoury teaches: The method wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed (figs. 2 and 4); if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed (figs. 2 and 3 and 4); and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed (fig. 3) for the benefit of best accommodating both right and left hand users.

53. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

54. Regarding claim 21, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The user interface system wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking

dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation.

55. The analogous prior art Kfoury teaches: The user interface system wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation (figs. 1-4) for the benefit of best accommodating both right and left hand users.

56. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

57. Regarding claim 22, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The user interface system wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed.

58. The analogous prior art Kfoury teaches: The user interface system wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed (figs. 2 and 4); if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed (figs. 2 and 3 and 4); and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed (fig. 3) for the benefit of best accommodating both right and left hand users.

59. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

60. Regarding claim 32, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The computer-readable medium wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation.

61. The analogous prior art Kfoury teaches: The computer-readable medium wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one



axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation (figs. 1-4) for the benefit of best accommodating both right and left hand users.

62. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

63. Regarding claim 33, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The computer-readable medium wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed.

64. The analogous prior art Kfoury teaches: The computer-readable medium wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed (figs. 2 and 4); if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed (figs. 2-4); and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed (fig. 3) for the benefit of best accommodating both right and left hand users.

65. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

66. Regarding claim 43, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The hardware control device wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation.

67. The analogous prior art Kfoury teaches: The hardware control device wherein, the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation (figs. 1-4) for the benefit of best accommodating both right and left hand users.

68. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the navigational control device is symmetrical along a one axis, including but not limited to rocking wheels, super wheels, rocking dogbones, and super dogbones, and for

reference purposes the one axis is initially oriented vertically, then the commands are logically remapped to the logical buttons, relative to the first orientation as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

69. Regarding claim 44, the previous combination of Hinckley and Tenhunen remains as above but doesn't teach: The hardware control device wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed.

70. The analogous prior art Kfoury teaches: The hardware control device wherein: if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed (figs. 2 and 4); if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed (figs. 2-4); and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed (fig. 3) for the benefit of best accommodating both right and left hand users.

71. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine if the display is rotated one quarter to the right, the commands for UP and DOWN are transposed; if the display is rotated one half to the right, then the commands for UP and DOWN are transposed, and the commands for PREV and NEXT are transposed; and if the display is rotated three-quarters to the right, then the commands for PREV and NEXT are transposed as shown in Kfoury with the previous combination for the benefit of best accommodating both right and left hand users.

72. Claims 3, 14, 25, 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hinckley et al. Pub. No.: US 2002/0021278 A1 in view of Tenhunen et al. Pub. No.: US 2002/0198029 A1 further in view of Kfoury et al. Pub. No.: US 2003/0044000 A1 further in view of Pinder et al. Patent No.: 5,758,267.

73. Regarding claim 3, the previous combination of Hinckley and Tenhunen and Kfoury remains as above but doesn't teach: The method wherein the display device is a non-visual display device.

74. The analogous prior art Pinder teaches: The method wherein the display device is a non-visual display device (fig. 1) for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

75. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the display device is a non-visual display device as shown in Pinder with the previous combination for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

76. Regarding claim 14, the previous combination of Hinckley and Tenhunen and Kfoury remains as above but doesn't teach: The user interface system wherein the display device is a non-visual display device.

77. The analogous prior art Pinder teaches: The user interface system wherein the display device is a non-visual display device (fig. 1) for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

78. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the display device is a non-visual display device as shown in Pinder with the previous combination for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

79. Regarding claim 25, the previous combination of Hinckley and Tenhunen and Kfoury remains as above but doesn't teach: The computer-readable medium wherein the display device is a non-visual display device.

80. The analogous prior art Pinder teaches: The computer-readable medium wherein the display device is a non-visual display device (fig. 1) for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

81. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the display device is a non-visual display device as shown in Pinder with the previous combination for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

82. Regarding claim 36, the previous combination of Hinckley and Tenhunen and Kfoury remains as above but doesn't teach: The hardware control device wherein the display device is a non-visual display device.

83. The analogous prior art Pinder teaches: The hardware control device wherein the display device is a non-visual display device (fig. 1) for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

84. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the display device is a non-visual display device as shown in Pinder with the previous combination for the benefit of enhancing the functionality of switches or buttons without adding additional buttons and without creating a scheme that is not intuitive to the user.

***Response to Arguments***

85. Applicant's arguments with respect to claims 1-6, 9-17, 20-28, 31-39, 42-44 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

86. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAURICE MCDOWELL, JR whose telephone number is

(571)270-3707. The examiner can normally be reached on Mon-Friday 7:30am - 5:00pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xiao Wu can be reached on 571--272-7761. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MM

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